CLAIMS

We claim:

1. A synthetic cork compound comprising:

a methyl vinyl silicone polymer from about 20 to 60 weight percent;

a fumed silica filler from about 20 to 60 weight percent;

a microsphere agent from about 5 to 50 weight percent; and

a cross-linking agent from about 0.1 to 5 weight percent.

2. A synthetic cork compound according to claim 1, wherein the methyl vinyl silicone polymer is polydimethylvinylsiloxane.

3. A synthetic cork compound according to claim 1, wherein the microsphere agent is soda lime borosilicate.

4. A synthetic cork compound according to claim 1, wherein the cross-linking agent is chloro-platanic acid.

5. A synthetic cork compound according to claim 1, wherein the cross-linking agent is peroxide.

6. A synthetic cork compound according to claim 1 further comprising toasted oak dust from about 0.1 to 25 weight percent.

7. A synthetic cork compound according to claim 1 further comprising:

toasted oak dust from about 0.1 to 25 weight percent; and

wherein the microsphere agent is soda lime borosilicate.

8. A synthetic cork compound according to claim 1 further comprising:

a high vinyl silicone polymer from about 0.5 to 10 weight percent;

toasted oak dust from about 0.1 to 25 weight percent;

pigment from about 0.1 to 5 weight percent;

silicon hydride from about 0.1 to 25 weight percent;

ethynl cyclohexanol from about 0.05 to 5 weight percent; and

wherein the cross-linking agent is chloro-platanic acid.

9. A synthetic cork compound according to claim 8, wherein:

the methyl vinyl silicone polymer is polydimethylvinylsiloxane; and

the microsphere agent is soda lime borosilicate.

10. A synthetic cork compound comprising:

a methyl vinyl silicone polymer of about 40.7 weight percent;

a fumed silica filler of about 27.1 weight percent;

a microsphere agent of about 26.2 weight percent; and

a cross-linking agent of about 0.99 weight percent.

11. A synthetic cork compound according to claim 10, wherein the methyl vinyl silicone polymer is polydimethylvinylsiloxane.

12. A synthetic cork compound according to claim 10, wherein the microsphere agent is soda lime borosilicate.

13. A synthetic cork compound according to claim 10, wherein the cross-linking agent is chloro-platanic acid.

14. A synthetic cork compound according to claim 10, wherein the cross-linking agent is peroxide.

15. A synthetic cork compound according to claim 10 further comprising toasted oak dust of about 1.0 weight percent.

16. A synthetic cork compound according to claim 10 further comprising:

toasted oak dust of about 1.0 weight percent; and

wherein the microsphere agent is soda lime borosilicate.

17. A synthetic cork compound according to claim 10 further comprising:

a high vinyl silicone polymer of about 1.3 weight percent;

toasted oak dust of about 1.0 weight percent;

pigment of about 0.25 weight percent;

silicon hydride of about 2.3 weight percent;

ethynl cyclohexanol of about 0.08 weight percent; and

wherein the cross-linking agent is chloro-platanic acid.

18. A synthetic cork compound according to claim 17, wherein:

the methyl vinyl silicone polymer is polydimethylvinylsiloxane; and

the microsphere agent is soda lime borosilicate.

19. A stopper formed from a synthetic cork compound comprising:

a methyl vinyl silicone polymer from about 20 to 60 weight percent;

a fumed silica filler from about 20 to 60 weight percent;

a microsphere agent from about 5 to 50 weight percent; and

a cross-linking agent from about 0.1 to 5 weight percent.

20. A stopper according to claim 19, wherein the methyl vinyl silicone polymer is polydimethylvinylsiloxane.

21. A stopper according to claim 19, wherein the microsphere agent is soda lime borosilicate.

22. A stopper according to claim 19, wherein the cross-linking agent is chloro-platanic acid.

23. A stopper according to claim 19, wherein the cross-linking agent is peroxide.

24. A stopper according to claim 19 further comprising toasted oak dust from about 0.1 to 25 weight percent.

25. A stopper according to claim 19 further comprising:

toasted oak dust from about 0.1 to 25 weight percent; and

wherein the microsphere agent is soda lime borosilicate.

26. A stopper according to claim 19 further comprising:

a high vinyl silicone polymer from about 0.5 to 10 weight percent;

toasted oak dust from about 0.1 to 25 weight percent;

pigment from about 0.1 to 5 weight percent;

silicon hydride from about 0.1 to 25 weight percent;

ethynl cyclohexanol from about 0.05 to 5 weight percent; and

wherein the cross-linking agent is chloro-platanic acid.

27. A synthetic cork compound according to claim 19 further comprising:

a high vinyl silicone polymer of about 1.3 weight percent;

toasted oak dust of about 1.0 weight percent;

pigment of about 0.25 weight percent;

silicon hydride of about 2.3 weight percent;

ethynl cyclohexanol of about 0.08 weight percent;

wherein the cross-linking agent is chloro-platanic acid present in an amount of about 0.99 weight percent;

wherein the methyl vinyl silicone polymer is polydimethylvinylsiloxane present in an amount of about 40.7 weight percent;

wherein the fumed silica filler is present in an amount of about 27.1 weight percent; and

wherein the microsphere agent is soda lime borosilicate present in an amount of about 26.2 weight percent.